

AMENDMENT

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently amended) A numerically controlled reciprocating submersible pump apparatus, comprising a sieve tube, a drive and a pump, the whole apparatus capable of being placed in an underground oil reservoir; wherein the drive consists of a stator having an upper end and a lower end and a reciprocating head with iron cores inside the stator; the stator and the reciprocating head form a friction couple via supporting guides and the reciprocating head iron cores; characterized in that, with an airtight cavity, the upper end of the stator is connected to a lower end of the pump through the sieve tube; the pump is connected to an oil tube; the stator's lower end is connected to a balancing sieve tube, an end plug and an end coupler of the drive serially, and wherein there are many circular iron core winding groups comprising circular iron cores and circular windings inside a stator frame with the supporting guides between the winding groups; the circular iron cores and the circular windings are arranged next to each other, there are seal bushings on circular inside surfaces of the circular iron cores and circular windings; the seal bushings are connected to endcovers; and all these form the airtight cavity, and
wherein the supporting guides are circular, made from alloy and have circular inside surfaces made from alloy; the supporting guides have smaller inside diameters than the seal bushings.

2-8. (Canceled)